

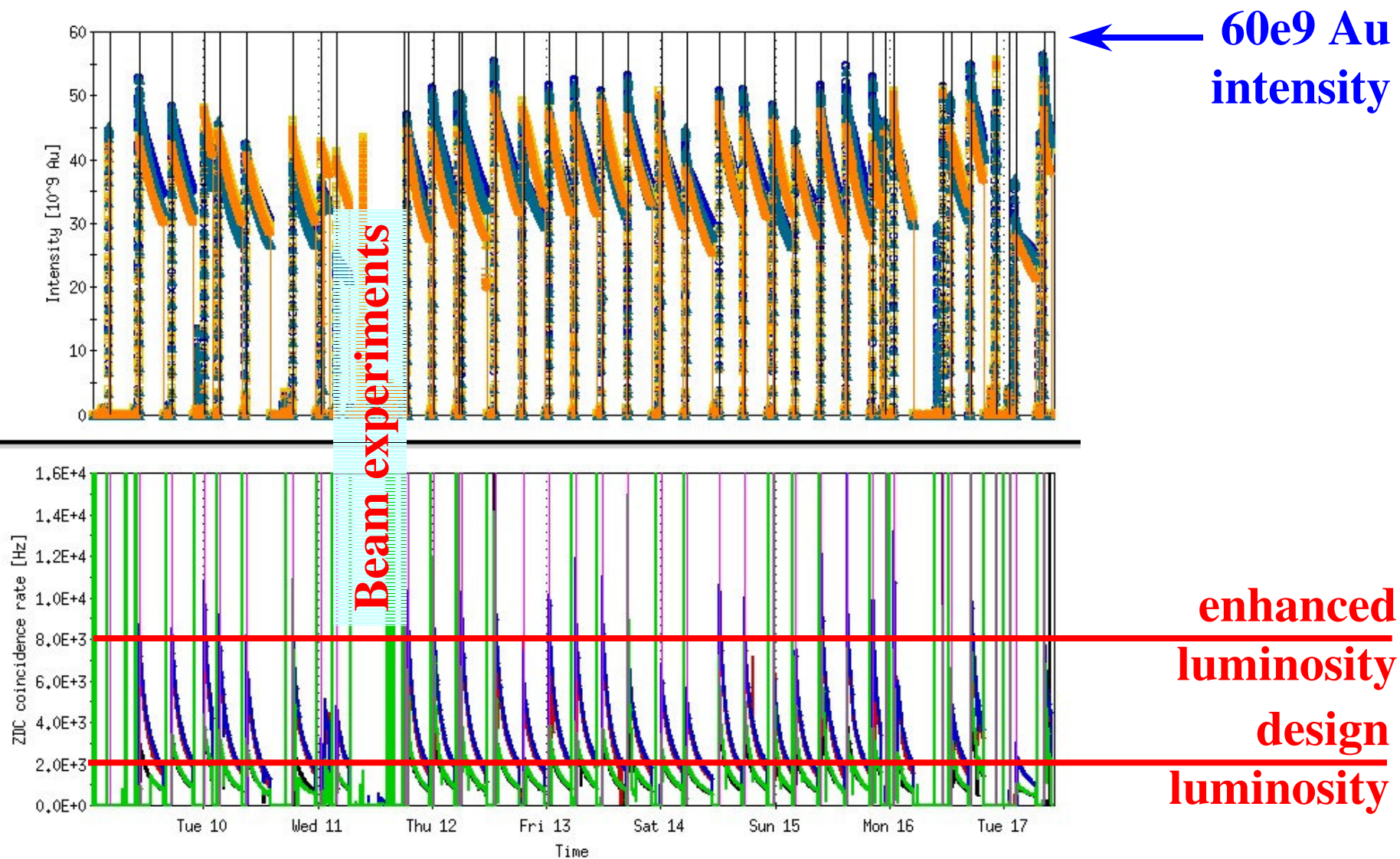
Last week:

Large amount of delivered luminosity
(best calendar week so far)

Problems:

- PHOBOS background
- Reliability of ramp orbit correction
- Bunch intensity not consistently at maximum
- DX heater fired from BRAHMS operation

Stores during last week, Monday to Tuesday



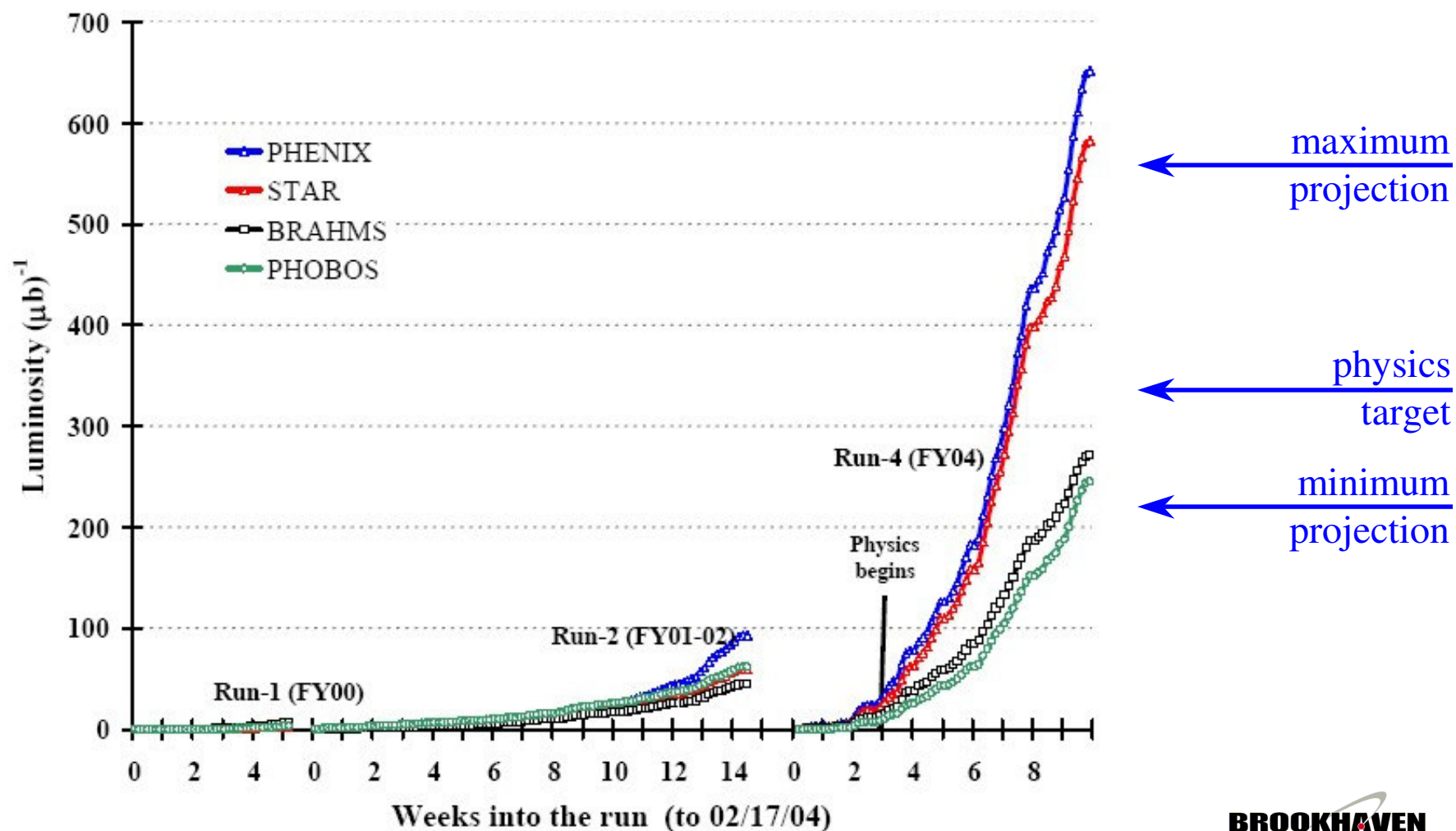
Delivered $634 (\mu\text{b})^{-1}$ to Phenix [week ago : 480]
153 $(\mu\text{b})^{-1}$ last week [best week: 139]

As of 02/15/04 24:00

Star $\times 0.9$

Phobos $\times 0.3$

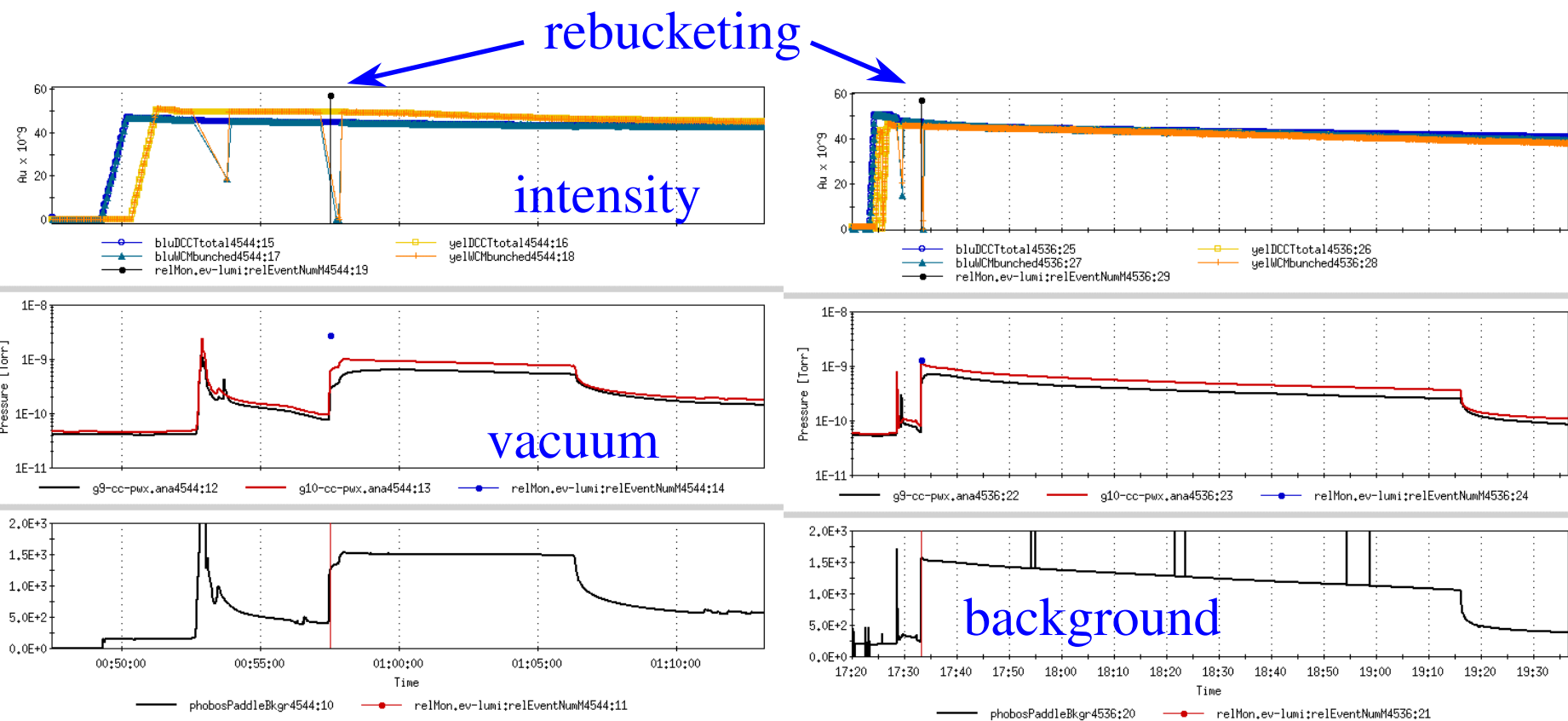
Brahms $\times 0.4$



Some statistics (week 9-Feb to 15-Feb), no maintenance

- No of stores : 25
Time in store : 111hrs (66% of calendar time)
- Average store time : 4.4hrs
- Av. store-to-store time : 2.0hrs (ex beam exp.)
Rms store-to-store time: 2.9hrs
- Optimum store length : 2.6hrs (for zero detector turn-on time)

PHOBOS background problem unresolved



4544: 8min

4536: 1h 43min

PHOBOS background problem

- General features
 - Need certain intensity and good rebucketing
 - Starts at rebucketing
 - Burns out after minutes to 2hrs
- Appearance and disappearance is
 - Not well correlated with bunch intensity
 - Not well correlated with peak intensity
 - Possibly correlated with orbit in IR10

Plan

1. Test “bump hypothesis”

- Complicated by demand for bump (at rebucketing) and no bump (after rebucketing)
- Need several people, since substantial deviation from standard ramp (difficult last weekend and this week)
- Need to maintain orbit correction at store

2. Test aligned abort gaps

- Will reduce PHENIX and BRAHMS luminosity by 7%

Only solution may be a significant luminosity reduction for all experiments.